

Submission of Abstract:

This is a national phase application of International Application No. PCT/US00/27048. Apparently, when the PCT application was forwarded to the Examiner for national phase processing, it did not include the abstract which applicants originally submitted. The following page contains the abstract that was published with the PCT application.

ABSTRACT OF THE DISCLOSURE

Methods and apparatus for determining peritoneal cavity fluid volume include four groups of two electrodes applied to a subject's skin.

5 Measuring electrodes (MLL, MRL) are applied to the subject's loins, measuring electrodes (MLB, MRB) are applied to the subject's buttocks, and upper and lower current-providing electrodes (IRU, ILU, IRL, ILL) are applied to the subject's left and right sides distal from the measuring electrodes (MLL, MRL, MLB, MRB). The resistance between left measuring

10 electrodes (MLL, MLB) is measured and the resistance between right measuring electrodes (MRL, MRB) is measured while current is applied between the upper and lower current-providing electrodes. By averaging resistance values, in combination with a calibration procedure, measurements of peritoneal cavity fluid volume are obtained. The

15 measurement techniques can be used in continuous flow peritoneal dialysis to control or adjust dialysis parameters based on peritoneal cavity fluid.